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## NOTICE OF ALLOWANCE AND FEE(S) DUE

49455

09/08/2009

STEIN MCEWEN, LLP 1400 EYE STREET, NW SUITE 300 WASHINGTON, DC 20005

**EXAMINER** BERNATZ, KEVIN M ART UNIT PAPER NUMBER 1794

DATE MAILED: 09/08/2009

APPLICATION NO.	NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,044	01/17/2006	Joo-Ho Kim	0001.1045	1715

TITLE OF INVENTION: HIGH DENSITY RECORDING MEDIUM WITH SUPER-RESOLUTION NEAR-FIELD STRUCTURE MANUFACTURED

USING HIGH-MELTING POINT METAL OXIDE OR SILICON OXIDE MASK LAYER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correcte maintenance fee notificat	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification a) specifying a new c	of n	naintenance fees v pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corres	spondence address as FEE ADDRESS" for
	ock 1 for any change of address)		Note: A certificate of mailing can only be used for domestic mai Fee(s) Transmittal. This certificate cannot be used for any other acc papers. Each additional paper, such as an assignment or formal dra have its own certificate of mailing or transmission.				other accompanying		
STEIN MCEW 1400 EYE STRE SUITE 300	/2009		State	reby certify that thes Postal Service v	is Fee(s	of Mailing or Transı 5) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	depo	sited with the United mail in an envelope	
WASHINGTON	I, DC 20005								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/529,044	01/17/2006	-	Joo-Ho Kim				0001.1045		1715
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nonprovisional	NO	\$1510	\$300		\$0		\$1810		12/08/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	S					
BERNATZ, KEVIN M 1794			428-823000						
☐ "Fee Address" indi	nge of Correspondence "Indication form ed. Use of a Customer	registered attorney or agent) and the names of up to							
3. ASSIGNEE NAME AT PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp	A TO BE PRINTED ON ' ified below, no assignee bletion of this form is NO	data will appear on t	he pa	ntent. If an assign assignment.			ocume	ent has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	up en	tity 🖵 Government
4a. The following fee(s) a  ☐ Issue Fee ☐ Publication Fee (N ☐ Advance Order - #	permitted)	<ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>							
5. Change in Entity Stat	<b>tus</b> (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no	a lans	per claiming SMA	L ENT	TITY status. See 37 CI	∃R 1 2	7(0)(2)
NOTE: The Issue Fee and interest as shown by the r			• •	•					
interest as snown by the f	records of the United Sta	tes Patent and Trademark	Comce.						_
Authorized Signature			Date						
Typed or printed name		Registration No.							
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10/529,044	01/17/2006	Joo-Ho Kim	0001.1045	1715		
49455 73	590 09/08/2009	EXAMINER				
STEIN MCEWE	N, LLP		BERNATZ, KEVIN M			
1400 EYE STREE	T, NW		ART UNIT	PAPER NUMBER		
SUITE 300			1794			
WASHINGTON, 1	DC 20005		1794			

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 509 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 509 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/529,044	KIM ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Kevin M. Bernatz	1794	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate common RIGHTS. This application is s	n this application. If not include unication will be mailed in due o	d course. <b>THIS</b>
<del>-</del>			
2. 🔀 The allowed claim(s) is/are <u>1 and 5</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority of a)  All b)  Some* c)  None of the:         <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Moreover Copies of the priority documents have</li></ol></li></ol>	ve been received. ve been received in Applicatio	on No	ion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the req	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi			OTICE OF
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") mutering including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No./Mail Date</li></ol>	rson's Patent Drawing Review   r's Amendment / Comment or  1.84(c)) should be written on the header according to 37 CF  osit of BIOLOGICAL MATI	r in the Office action of  he drawings in the front (not the FR 1.121(d).  ERIAL must be submitted. N	•
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☑ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview S Paper No 7. Examiner's 8. Examiner's 9. Other /Kevin M. Berna		wance
	August 27, 200		

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### Reasons for Allowance

1. The present claims are deemed allowable over the references of record for the reasons of record in Paragraph No. 7 of the Office Action mailed on May 19, 2009.

2. Any comments considered necessary by Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Examiner's Comments

3. In order to better clarify the record, the Examiner wishes to point out Kim et al. (U.S. Patent No. 7,572,496 B2), which disclose SbO and AgO mask layers used with W and W-x containing recording layers, wherein the W or W-x compound diffuses into adjacent dielectric layers (*see entire disclosure*). However, Kim et al. does not teach that the W or W-x compound diffuses into the mask layer.

#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Kevin M. Bernatz whose telephone number is (571) 272-1505. The Examiner can normally be reached on M-F, 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Ruthkosky can be reached on (571) 272-1291. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Kevin M Bernatz/ Primary Examiner, Art Unit 1794

August 27, 2009